

WHAT IS CLAIMED IS:

1 1. A composite board comprising:

2 a first board having a first grain;

3 a second board having a second grain; and

4 a mediate board securely sandwiched between the first board and the

5 second board, the mediate board having a grain perpendicular to the first grain

6 and the second grain such that deformation of the composite board is avoided as

7 interaction among the first grain, the second grain and the grain harmonizes

8 expansion or contraction of the first board and the second board.

9 2. The composite board as claimed in claim 1, wherein the mediate

10 board further has a notch defined in a side face of the mediate board and a tongue

11 oppositely formed relative to the notch to enable the composite board to connect

12 to an adjacent composite board.

13 3. The composite board as claimed in claim 1, wherein the mediate

14 board has multiple slits latitudinally defined across the mediate board to

15 overcome stress resulting from temperature and humidity change inside the

16 composite board.

17 4. The composite board as claimed in claim 2, wherein the mediate

18 board has multiple latitudinal slits latitudinally defined across the mediate board

19 to overcome stress resulting from temperature and humidity change inside the

20 composite board.

21 5. The composite board as claimed in claim 4 further comprising a third

22 board securely attached to a free side of the second board and having a third

23 grain perpendicular to the second grain.

1 6. The composite board as claimed in claim 5, wherein multiple
2 longitudinal slits are longitudinally defined in the mediate board to intersect with
3 the latitudinal slits to reinforce structural integrity of the composite board.

4 7. The composite board as claimed in claim 4, wherein the mediate
5 board further has multiple right slanted slits intersecting with each one of the
6 latitudinal slits and multiple left slanted slits each intersecting with each one of
7 the latitudinal slits and intersecting with a corresponding one of the right slanted
8 slits to increase structural integrity of the composite board.

9 8. The composite board as claimed in claim 5, wherein the mediate
10 board further has multiple right slanted slits intersecting with each one of the
11 latitudinal slits and multiple left slanted slits each intersecting with each one of
12 the latitudinal slits and intersecting with a corresponding one of the right slanted
13 slits to increase structural integrity of the composite board.

14 9. A composite board comprising:
15 a first board having a first grain;
16 a second board securely attached to a side of the first board and having a
17 second grain perpendicular to the first grain;
18 a mediate board securely attached to a free side of the second board and
19 having a notch defined in a side face of the mediate board, a tongue oppositely
20 formed with respect to the notch, multiple top slits defined in a top face of the
21 mediate board and multiple bottom slits defined in a bottom face of the mediate
22 board;
23 a third board securely attached to a free side of the mediate board and
24 having a third grain; and

1 a fourth board securely attached to a free side of the third board and
2 having a fourth grain perpendicular to the third grain,
3 whereby the tongue and the notch of the mediate board allows the
4 composite board to connect to an adjacent composite board and the mutual
5 perpendicular relationship between the first grain and the second grain and
6 between the third grain and the fourth grain harmonize expansion or contraction
7 of the composite board due to change of temperature and humidity in the
8 composite board.

9 10. The composite board as claimed in claim 9, wherein the mediate
10 board further has multiple longitudinal slits defined in opposite side faces of the
11 mediate board to respectively intersect with the top slits and the bottom slits.

12 11. The composite board as claimed in claim 9, wherein the mediate
13 board further has multiple left slanted slits defined in the top face of the mediate
14 board to intersect with the top slits.

15 12. The composite board as claimed in claim 11, wherein the mediate
16 board further has multiple right slanted slits defined in the top face of the
17 mediate board to intersect with the bottom slits.